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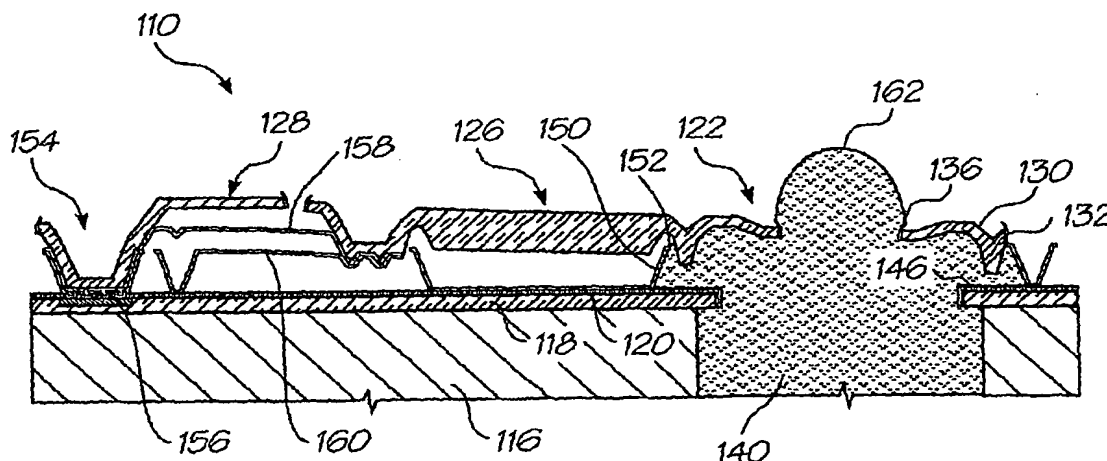
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(54) Title: **INK JET NOZZLE ASSEMBLY INCLUDING DISPLACEABLE INK PUSHER**



(57) **Abstract**—An ink jet printhead chip includes a substrate (116). Drive (156) is positioned in the substrate. A plurality of nozzle arrangements (122) is positioned on the substrate. Each nozzle arrangement includes nozzle chamber walls (150) and a roof wall (130) that define a nozzle chamber and an ink ejection port in the roof wall in fluid communication with the nozzle chamber. An ink pusher is operatively positioned with respect to the nozzle chamber and is displaceable through a range of between 1 micron and 5 microns to eject ink from the ink ejection port. An actuator (128) is connected to the drive circuitry and the ink pusher to displace the ink pusher on receipt of an electrical signal from the drive circuitry.